

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

3. (Third Time Amended) An electrically controlled braking system according to claim 39, wherein said electrically controlled brake includes a rotor for rotating with said wheel, a friction member, and an electrically operated actuator for forcing said friction member onto said rotor, said switching device is disposed between said electric power source device and said actuator.

4. (Third Time Amended) An electrically controlled braking system according to claim 39, wherein said electrically controlled brake includes a rotor for rotating with said wheel, a friction member, and an electrically operated actuator for forcing said friction member onto said rotor, said braking system further comprising another switching device disposed between said electric power source device and said actuator, said another switching device being turned on to connect said electric power source device to said actuator in response to an operation of said brake operating member.

5. (Third Time Amended) An electrically controlled braking system including an electrically controlled brake for braking a wheel of an automotive vehicle, an electric power source device, a brake operating member, and a brake control apparatus for controlling an electric energy to be supplied from said electric power source device to said brake, for thereby controlling an operation of said brake, when said brake operating member is operated, said braking system comprising:

a switching device disposed between said electric power source device, and at least one of said brake control apparatus and said brake, said switching device being turned on for connecting said electric power source device to said at least one of said brake control apparatus and said brake, in response to an operation of said brake operating member,

wherein said switching device includes a plurality of switches which are connected in series with each other and which are turned on in response to the

operation of said brake operating member that is common to said plurality of switches.

6. (Twice Amended) An electrically controlled braking system according to claim 39, wherein said brake control apparatus includes a plurality of control devices each of which is principally constituted by a computer, and said electric power source device includes a plurality of electric power sources corresponding to said plurality of control devices, respectively.

11. (Twice Amended) An electrically controlled braking system according to claim 39, wherein said brake control apparatus includes at least three control devices each of which is principally constituted by a computer.

12. (Twice Amended) An electrically controlled braking system according to claim 39, wherein said brake control apparatus includes at least one control device each of which is principally constituted by a computer, and said electric power source device includes a plurality of electric power sources which are arranged to supply electric energies to each of said at least one control device independently of each other.

18. (Third Time Amended) An electrically controlled braking system according to claim 39, wherein said electrically controlled brake includes an electrically operated front brake actuator for forcing a friction member onto a rotor rotating with a front wheel, and an electrically operated rear brake actuator for forcing a friction member onto a rotor for rotating with a rear wheel, and said electric power source device includes a front brake power source for supplying an electric energy to said electrically operated front brake actuator and a rear brake power source for supplying an electric energy to said electrically operated rear brake actuator.

19. (Third Time Amended) An electrically controlled braking system according to claim 39, wherein said electrically controlled brake includes a plurality of brakes for braking respective wheels of the automotive vehicle, said brakes including respective electrically operated electric motors each of which is arranged to force a friction member onto a rotor for rotating with a corresponding one of the wheels, said braking system further comprising a plurality of actuator switching devices each of which is disposed between said electric power source device and a corresponding one of said electric motors, each of said actuator switching devices being operable between a connecting state for connecting said electric power source device to the corresponding electric motor, and a disconnecting state for disconnecting said electric power source device from said corresponding electric motor.

21. (Third Time Amended) An electrically controlled braking system according to claim 39, wherein said electrically controlled brake includes a rotor for rotating with said wheel, a friction member, and an electrically operated actuator for forcing said friction member onto said rotor, and said brake control apparatus includes a main control device which determines a physical quantity relating to a desired value of a braking force to be produced by said brake and generates a control command representative of the determined physical quantity, and an actuator control device which controls said electrically operated actuator according to said control command and generates a signal representative of a physical quantity relating to an actual value of the braking force produced by said brake.

29. (Twice Amended) An electrically controlled brake system according to claim 39, further including a mechanically operated brake mechanically operated by said brake operating member, and wherein said brake control apparatus includes a switching mechanism operable between a connecting state in which an operating force applied to said brake operating member upon operation of said brake operating member is transmitted to said

mechanically operated brake and a disconnecting state in which said operating force is not transmitted to said mechanically operated brake, said brake control apparatus further including a switching control device which is normally placed in said disconnecting state, and is brought into said connecting state when an electrical abnormality of the electrically braking system takes place.

Please add new claims 39-47 as follows:

--39. An electrically controlled braking system including an electrically controlled brake for braking a wheel of an automotive vehicle, an electric power source device, a brake operating member, and a brake control apparatus for controlling an electric energy to be supplied from said electric power source device to said brake, for thereby controlling an operation of said brake, when said brake operating member is operated, said braking system comprising:

a switching device disposed between said electric power source device and said brake,

wherein said switching device includes a first switch and a second switch which are connected in parallel with each other, said first switch comprising at least one of an ignition switch of the automotive vehicle, and a switch which is turned on and off in response to an operation of said ignition switch, said second switch being turned on and off in response to an operation of said brake operating member, said switching device being turned on for connecting said electric power source device to said brake, in response to either one of the operations of said ignition switch and said brake operating member.--

--40. An electrically controlled braking system including an electrically controlled brake for braking a wheel of an automotive vehicle, an electric power source device, a brake operating member, and a brake control apparatus for controlling an electric energy to be supplied from said electric power source to said brake, for thereby controlling an operation of said brake, when said brake operating member is operated, said braking system comprising:

a switching device disposed between said electric power source device, and at least one of said brake control apparatus and said brake,

wherein said switching device includes a first switch and a second switch which are connected in parallel with each other, said first switch comprising at least one of an ignition switch of the automotive vehicle, and a switch which is turned on and off in response to an operation of said ignition switch, said second switch being turned on and off in response to an operation of said brake operating member, said switching device being turned on for connecting said electric power source device to at least one of said brake control apparatus and said brake, in response to either one of the operations of said ignition switch and said brake operating member,

and wherein said electrically controlled brake includes a rotor for rotating with said wheel, a friction member, and an electrically operated actuator for forcing said friction member onto said rotor.--

--41. An electrically controlled braking system including an electrically controlled brake for braking a wheel of an automotive vehicle, an electric power source device, a brake operating member, and a brake control apparatus for controlling an electric energy to be supplied from said electric power source to said brake, for thereby controlling an operation of said brake, when said brake operating member is operated, said braking system comprising:

a switching device disposed between said electric power source device, and at least one of said brake control apparatus and said brake; and

a detecting device which detects at least one of an operating stroke of said brake operating member and a depression force acting on said brake operating member,

wherein said switching device includes a first switch and a second switch which are connected in parallel with each other, said first switch comprising at least one of an ignition switch of the automotive vehicle, and a switch which is turned on and off in response to an operation of said ignition switch, said second switch being turned on and off in response to an operation of said brake

operating member, said switching device being turned on for connecting said electric power source device to at least one of said brake control apparatus and said brake, in response to either one of the operations of said ignition switch and said brake operating member,

and wherein said brake control apparatus determines a desired braking force to be produced by said brake, on the basis of at least one of said operating stroke and said depression force detected by said detecting device, and controls said electric energy such that said desired braking force is produced by said brake.--

Q  
Cont

--42. An electrically controlled braking system according to claim 39, wherein said first switch comprises said switch which is turned on and off in response to the operation of said ignition switch. --

--43. An electrically controlled braking system according to claim 39, wherein said first switch comprises said ignition switch. --

--44. An electrically controlled braking system according to claim 40, wherein said first switch comprises said switch which is turned on and off in response to the operation of said ignition switch. --

--45. An electrically controlled braking system according to claim 40, wherein said first switch comprises said ignition switch. --

--46. An electrically controlled braking system according to claim 41, wherein said first switch comprises said switch which is turned on and off in response to the operation of said ignition switch. --

--47. An electrically controlled braking system according to claim 41, wherein said first switch comprises said ignition switch. --